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A User FORUM in the ARPANET NEWS

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A new feature of the ARPANET NEWS is announced. A new section is being added to provide an ongoing dialogue between Network memoers on subjects of user interest. As the ARPANET evolves toward an operational network with a varied and broad user base, many transitions will occur. It is the purpose of this section of ARPANET NEWS to provide a forum for individuals to provide suggestions relative to ensuring a graceful ARPANET evolution.

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The editors will consider for publication all received articles and comments. Submissions should be directed to ISELIQUSC-ISI, to J1 at NIC through the NIC Journal, to JBN at NIC through the Journal, or mailed as hard copy to Jeanne B. North at SRI-ARC or to Jean Iseli at MITRE-TIP.

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The new section will be entitled FORUM and will be updated online so that the latest submissions can be seen through the NIC query capability, and will be included in the online ARPANEWS and hardcopy issues of the NEWS.

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Your participation is solicited.

The Editors

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Editors: Jeanne B. North (NIC)
Jean Iseli (MITRE)

Contributing Editor: Susan S. Poh (MITKE)

The online version is sent to all Network members who receive online delivery from NIC. It can also be accessed by anyone who logs into SRI-ARC and uses the query language named NIC.

The online version contains the month's basic issue. Each week a branch is added, containing items received during the week. This update material is added to the new feature articles to produce the next month's issue.

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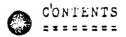
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Frincipal Investigator, and Station Agent at Network Sites, and to Network Associates. Local reproduction is encouraged.

contributions to the NEWS may be forwarded to JI at NIC through the cournal, to ISELIGUSC-ISI, or to Jean Iseli, The MITRE Corporation, Marienal Systems Design Dept. Westgate Research Park, McLean, Va. 1810. News may also be forwarded to JBN through the NIC Journal, or mailed to Jeanne North at SRI.



After two fairly successful issues, the Newsletter dropped in size with this May issue, which suffered from lack of editorial attention and lack of reader input. The papers which are included in this issue are of importance, and the hardcopy is being issued to bring their information to as wide an audience as possible.

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CALENDAR	Events of Network Interest	3
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FORUM	For Network Users Opinions	10

ARPANET NEWS Information About the Publication (See inside cover)

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CALENDAR Events of Network Interest =======

schedule

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(ONR)
(RESOURCE-SHAR)
(AFIPS)
(CHINESE)
(AI-SU)
(IEEE)
(DATA-SYMP)

A meeting listed here is sponsored by the Group named. Many meetings are open to other interested people. NIC document references are given where available.

meetings sponsored by Groups in the Network are indicated by *.

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(CSMA-Mtg)

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11/27 in Chicago in New York 7/20

in Washington 10/18

11/16 in Los Angeles CSMA Data Communications Seminars. Each is 2 workshops: Basic Data Communications Design Concepts, and Advanced Data Communications System Design. Fee \$65, \$75 (nonmembers). Communications Systems Management Assn., Suite 1003, 1102 West St., Wilmington, Del. 19801. (302)658-4117.

(ANG) 5/16-18

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Symp. on Complexity of Sequential and Numerical Algorithms. ONR Contact: Computer Science Dept., CMU

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(RESOURCE-Shar) Automated Resource Sharing on the ARPANET

TENEX and TIP Groups at BBN Will host a Workshop on Monday, May 21, 1973, 9 AM to 5 PM, at BBN, Cambridge, on various aspects of the question:

What steps can be taken to automate access to the distributed resources on the ARPANET?

How can we move from where we are today toward an environment which facilitates resource sharing by moving the burden of dealing with the Network from the human user to processes which act on his behalf?

Additionally, operating systems themselves perform various operations not directly initiated by human users which could better be performed with the availability of resources on other systems (e.g. file system backup); how can we move toward an environment which facilitates such system-system cooperation?

Objectives of Workshop:

- l. To identify and clarify the issues raised by automated resource sharing. What are the obstacles preventing more widespread resource sharing on the ARPANET? Are they technical, political, administrative in nature? Is it that there are few resources worth sharing? (We don't think so). Is automated sharing a pag idea? (we don't think so).
- 2. To identify resources at various Network sites appropriate for automated sharing, and to identify the need for resources which don't but should exist.
- 3. To formulate a series of experiments for the purpose of evaluating relative merits and disadvantages of different approaches to automating resource sharing. The intent of such experimentation is to gain experience through construction and use of prototype systems which support automated sharing.

(AFIPS) 6/1-8
AFIPS lst Natl Computer Conference and Exposition. N.Y. Unmn, Methods and Applications Program: Dr. Robert W. Bemer, C/O Honeywell Information Systems, P.O. Box 6000, Phoenix, Ariz., 85005 (602) 993-2569.

(CHINESE) International Symposium on Computers and Chinese Input/Output Systems)

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Academia Sinica, Taipei, Taiwan, China, August 14,15, 1973

AREAS OF INTEREST: Authors are invited to submit papers (Two copies of either drafts or abstracts (minimum 600 words) are to be submitted no later than 1 June 1973 to Dr. Shi-Kuo Chang, Institute of Mathematics, Academia Sinica, Nankang, Taiwan, Republic of China/ describing new ideas, applications, and experimental systems in the following areas: Chinese I/O Systems, Computer Graphics, Picture Processing, Pictorial Pattern Recognition, Speech Recognition, Terminal-oriented Systems, Computer Architecture, Data Communication Systems, and Machine Translation.

TECHNICAL PROGRAM CHAIRMAN:

Dr. Julius Tou Center for Informatics Research University of Florida Gainsville, Florida

LOCAL ARRANGEMENTS CHAIRMAN:

Dr. Shi-Kuo Chang Institute of Mathematics Academia Sinica Nankang, Taiwan, Republic of China

SPONSORS:

Academia Sinica National Science Council, ROC China Institute of Electrical Engineering Telecommunications Laboratory, ROC in cooperation with IEEE, U.S.A.

.... Extracted by JI

(AI=SU) 8/20-24
3rd International Joint Conference on Artificial Intelligence, at Stanford. Contact: Prof. J. McCarthy, SU-AI. (Artificial Intelligence, 3, 1972, p.289-290)

(IEEE) 10/15-17
IEEE, Switching & Automata Theory Symposium, luth Annual. U.Iowa, Iowa City. Abstracts to: H.R. Strong, IBM TJW Res.Center, P.O. 218, Yorktown Heights, 10598. Reg.: Prof. Gerard Weeg, Chmn.Comp. Sci. Dept., U.of Iowa, Iowa City, 52240 NIC 13957

(DATA-SYMP) Third Data Communications Symposium

The third symposium in the ACM/IEEE series (formerly entitled "Conferences on the Optimization of Data Communications") will be devoted to technical subjects related to the design, analysis, and operation of data networks. Topics to be covered will include, but are not necessarily limited to:

- o Packet, Message, and Data Switching
- o Modems and Multiplexors
- o Sophisticated Concentrators
 - o Network Design and Control
 - o Modes and Analytical Techniques
 - o Standards
 - o Existing Networks

This Third Data Communications Symposium will be held in Tampa, Florida, November 13-15, 1973.

Program Chairman: Lt. Col. Philllip H. Enslow Jr.

13178 Putnam Circle Woodbridge, Va. 22191

Conference Chairman: Professor Raymond Pickholtz

School of Engineering

George Washington University

Wasnington, D.C. 20006

Registration information may be obtained from Data Symposium, P.O. Box 639, Silver Spring, MD 20901. Col. Enslow reports that advance registration will be required. The advance program and the advance registration will be in the August issue of Computer or individuals can write to Harry Hayman at the above Silver Spring address.

... Extracted by JI from "CALL FOR PAPERS"

(8) Languages specifiable in automata	ا اس، د
(9) Languages facilitating n-person game strategies	
(10) Advancements in structured text-editing systems for documentation, computer composition of published materials, and the like	5n
(11) Fault location and diagnosis in large digital networks, and the many related interests the above suggest	
Case's developing interests in the ARPANET are:	5 P
(1) Use of speech data bases (speech samples and experimental results) at other sites	59
(2) Performance measurements on major operating systems at other sites not available at Case (IBM, Burroughs, CDC, etc.)	
(3) World energy regional modeling among cooperating sites, vi COMSAT and ARPANET, proposed and sponsored (in part) by the Club of Rome	
(4) Use by other sites of the local and global data bases at Case for the design of computing and other digital systems	5 t
(5) Use by other sites of local laboratories, particularly in th areas of signal processing and digital systems synthesis	البور. >
Barden, for Page and Calvin, 17 April 1973	۶۷
PROTOCOLS (No protocol news included in this issue)	≯∀
RESOURCE NEWS (No resource news received this issue)	6
PLANS (No plans section in this issue)	7
OTHER NEWS (No news classified as OTHER in this issue)	0
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FEATURED SITE CASE-10 Case Western Reserve University

The site installation at Case Western Reserve University known to ARPANET as CASE-10, is a DEC PDP-10 system running under a TENEX operating system, 128k of core memory, and 42 million words of online disk storage. Small computers (PDP-11's and a TI-960As) in several laboratories are being interfaced with the PDP-10 system through a high speed DMA interface. The laboratories are engaged in signal processing, digital systems synthesis, and design of electronic computer peripheral devices. These activities have both instructional and research purposes.

Evans and Sutherland (LDS-2) equipment is being installed in an educational engineering laboratory. The laboratory will be primarily concerned with computerized film animation and moviemaking for audio-visual instructional aids.

The system is heavily loaded in the daytime but in the evenings (6pm -- 8am) and on weekends the load drops significantly. It is usually, though not always, down Mondaymornings (9-12 a.m.). ARPANET users having interests in virtually any area with promise of advancing the computing and information sciences are welcome to contact Case for logging information to explore the facilities. The system has all the usual DEC and TENEX software, so TENEX users will be on familiar ground. Those not familiar with the system can start with the monitor commands which they list by simply typing "?"

ARPANET users wishing to go beyond the exploratory stages (200ut 12 minutes or \$50 worth) are advised to SNDMSG to Bill Page (PAGE@CASE-10) as to the nature of their interests and the dimensions of proposed use of the Case system. Case is open to collaborative propositions involving (1) barters of time with other sites for work related to interests here, (2) sales of time for sponsored research, and (3) sales of time as a service.

Research interests at Case are:

- (1) Computer-aided design and certification of computing systems, a process of interactive design-group contributions to data bases under prespecified constraints of language, logic, and structure
- (2) Computer system security and protection of privacy
- (3) Major operating systems performance measurements, comparisons, and modeling
- (4) Computer signal processing in the areas of speech, pictures, signatures, and implanted medical telemetry
- (5) Automated digital systems synthesis
- (6) Computer-aided instruction
- (7) Theorem and problem-solving

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May 1973

ARPA Network Information Center Stanford Research Institute Menlo Park, Calif. 94303